

## ABSTRACT OF THE DISCLOSURE

A method for calibrating a center error offset in an optical drive and a control system capable of calibrating the center error offset. The method includes the steps of: controlling a focusing coil to focus on a rotating disk; 5 controlling a tracking coil with different tracking coil control values; measuring and storing the amplitude of a tracking error TE signal and a center level of the center error CE signal responding to each control value; and selecting a largest amplitude of the tracking error TE signal and setting the responding center level of the center error CE signal as an optimal center error offset. Because the 10 calibrating method determines the optimal center error offset by outputting different tracking coil control signals, it considers not only the unbalance of the gains of photo detectors and the optical deviation due to the assembly misalignment, but also the offset in a power drive.